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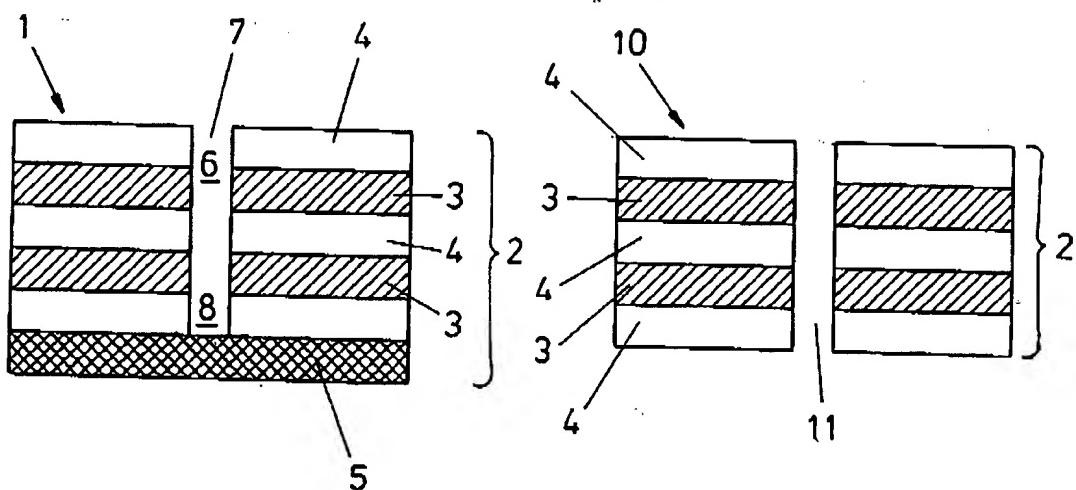
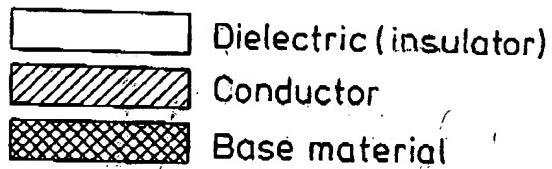


FIG. 1a

FIG. 1b

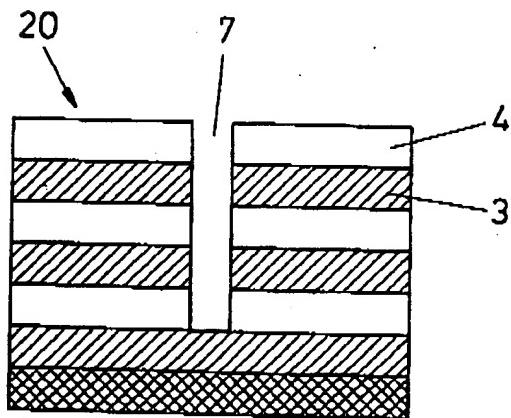
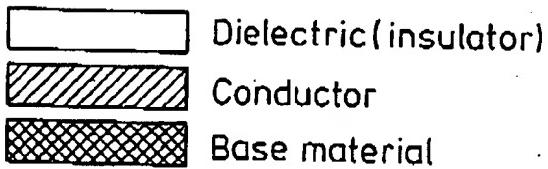


FIG. 2a

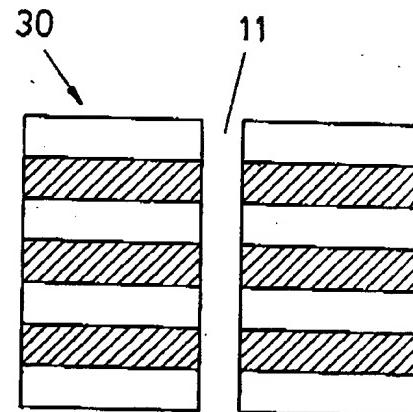
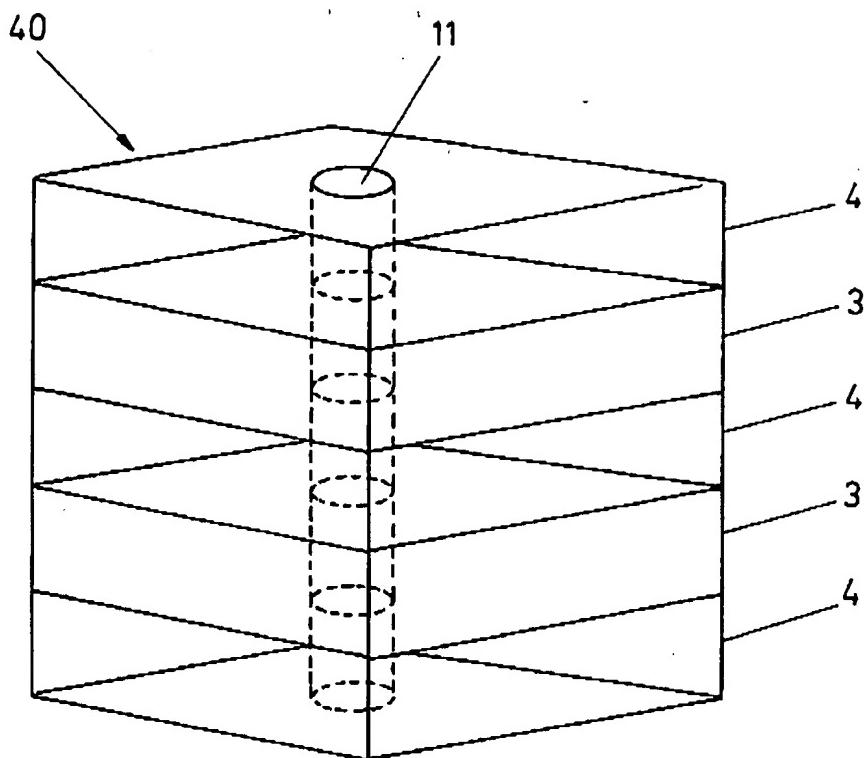


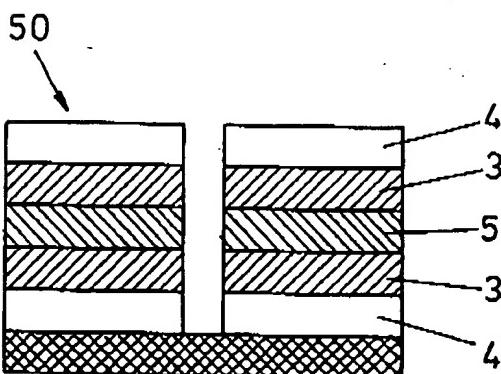
FIG. 2b

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FIG. 3

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- |  |   |
|--|---|
|  | Dielectric (insulator)                  |
|  | Conductor                               |
|  | Base material                           |
|  | Reagent loaded or functional dielectric |

FIG. 4aFIG. 4b

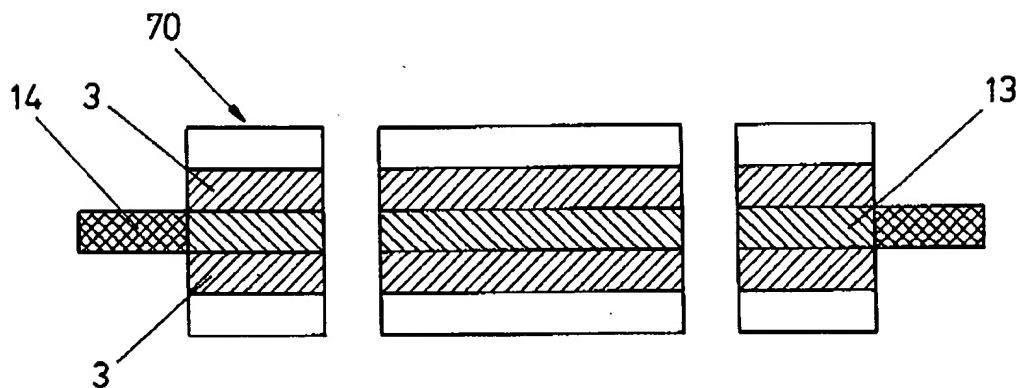
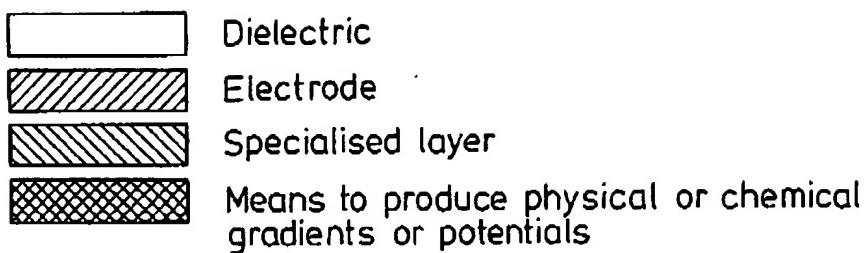


FIG. 5a

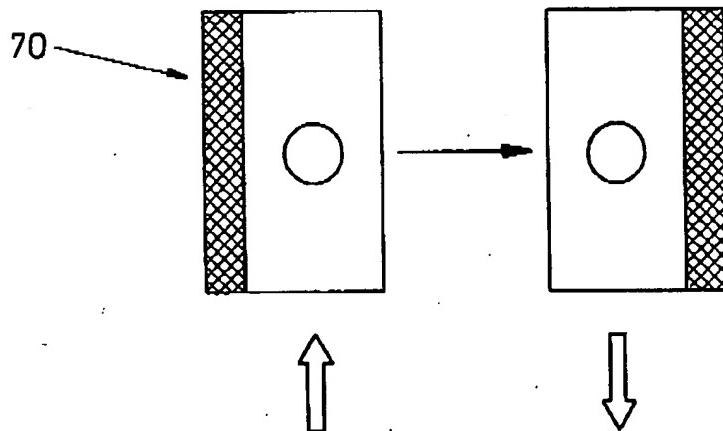


FIG. 5b

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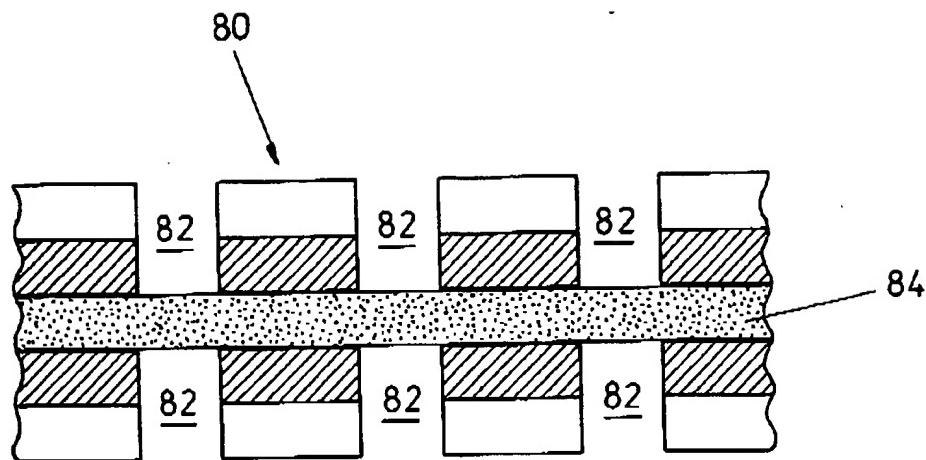


FIG. 6

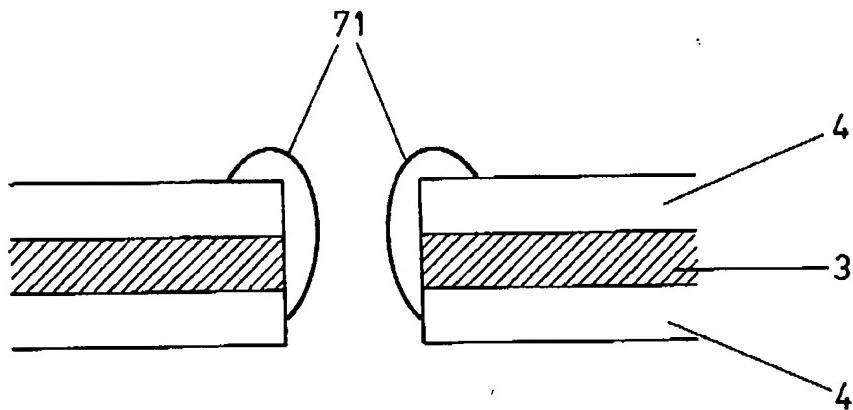


FIG. 7

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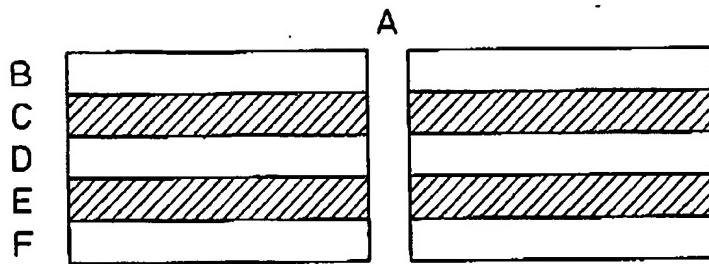


FIG. 8a

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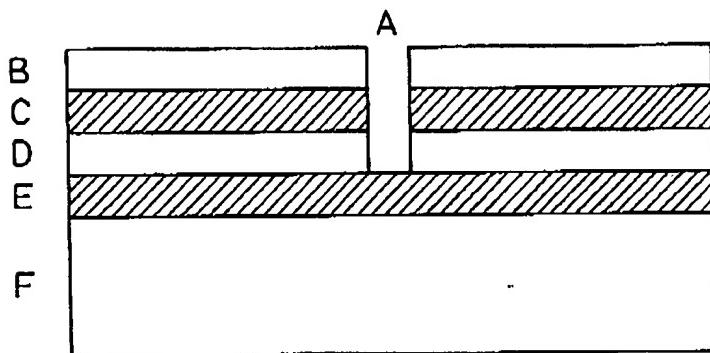


FIG. 8b